Installation Manual (version 4-2)

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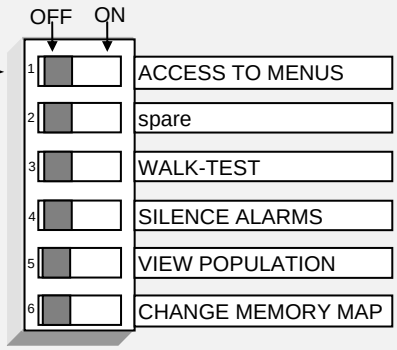


The 6 Function Switches on the PCB work as shown above

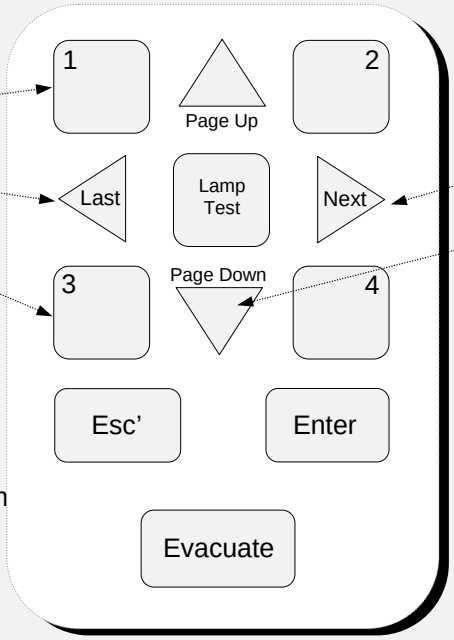
Address-code settings & detector connections are on the back page

FirePoint-2

In Standby mode

Fire-graph
Software Version
Time & Date

can all be viewed by using these buttons.

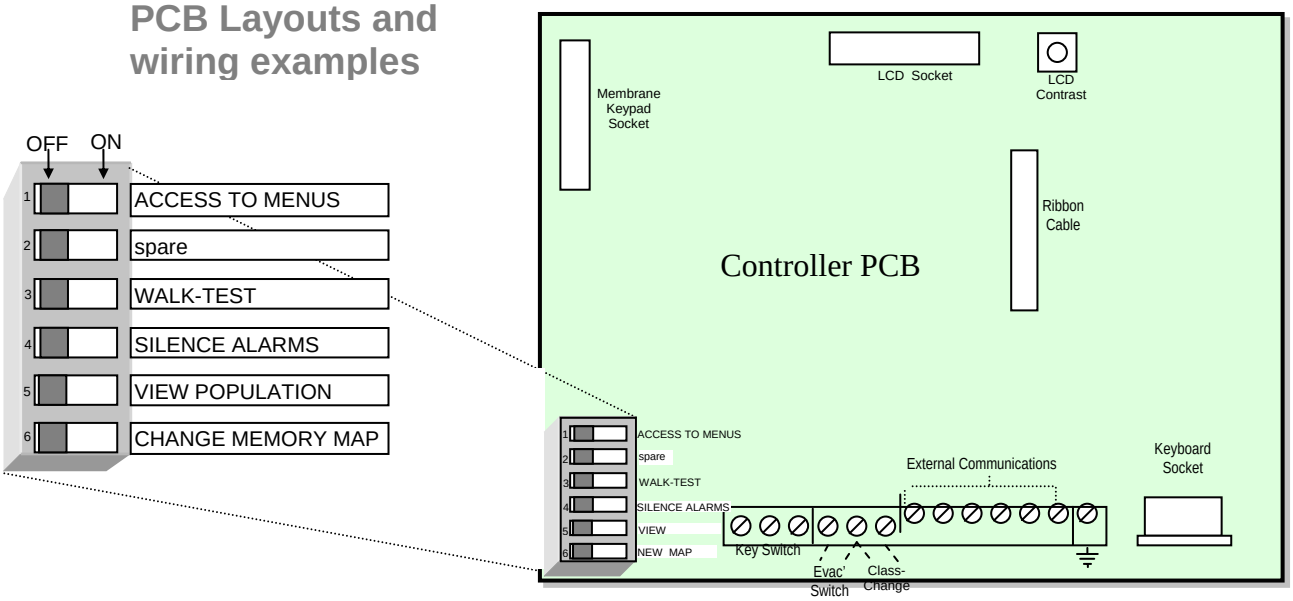


In "VIEW POPULATION"

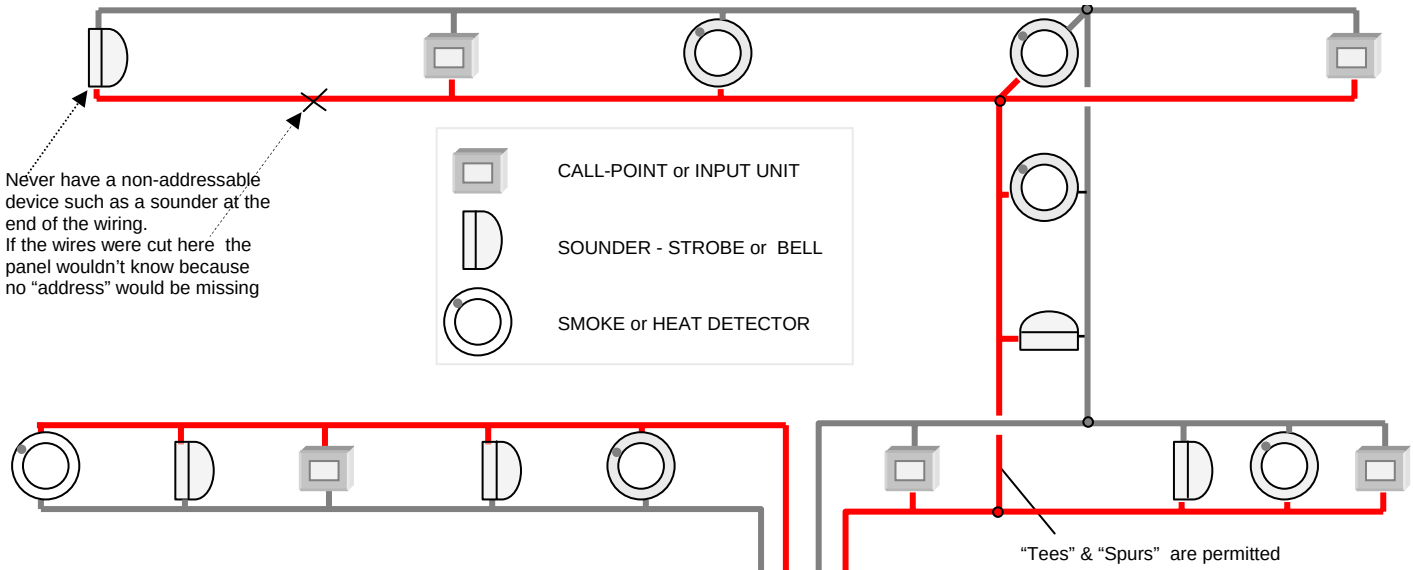
LAST & NEXT lets you view the entire installed detector population of each loop.
PAGE UP - DOWN changes to the other loop.

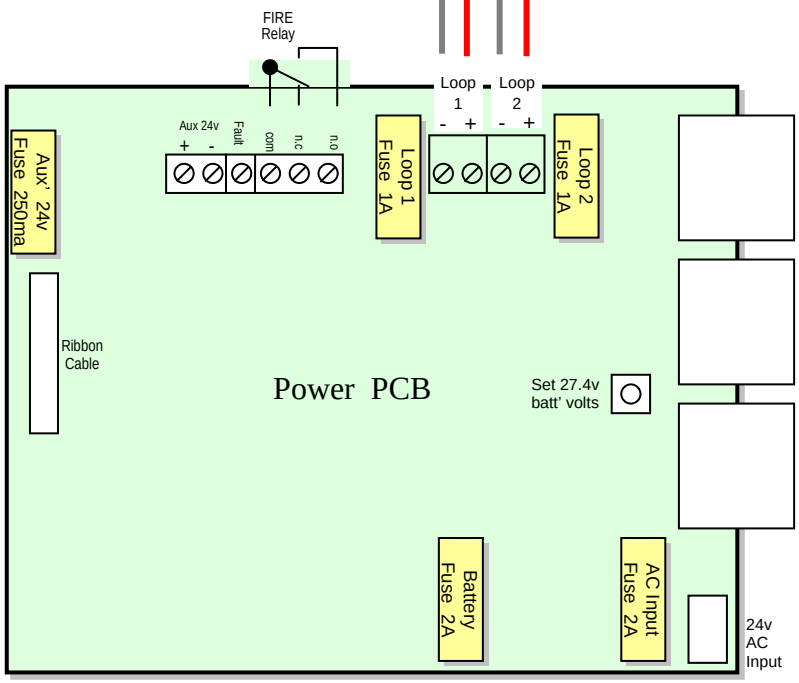
The Keypad Operation

PCB Layouts and wiring examples



The detectors & sounders can be fitted in any order throughout the installation wiring


Never have a non-addressable device such as a sounder at the end of the wiring.
If the wires were cut here the panel wouldn't know because no "address" would be missing
CALL-POINT or INPUT UNIT
SOUNDER - STROBE or BELL
SMOKE or HEAT DETECTOR
"Tees" & "Spurs" are permitted



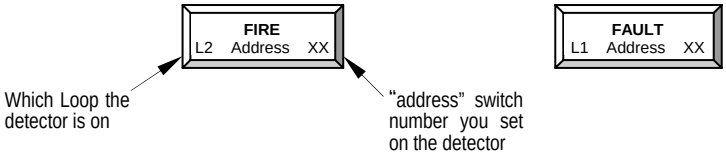
To Fast-Start the Installation (& keyboard layout)

To enable the installation to be up and running quickly it isn't necessary to enter any information for the detectors first; the system automatically displays FIRE and FAULT plus the detector address number (as shown below); The detector type, text & zone numbers, can be entered later when you are ready.

Before starting the installation, fill-out a "detector-location chart" first (Loop No', Zone No', Address No', & Location), this will give you a written reference to compare with at any time during the installation; before fitting any detector, set the address code and tick it off from the chart.

Items 1 - 4 below are all you need to do to get the system up-and-running.

1. **Move "NEW MAP" switch to ON.**
2. **Set the "address" switch on each detector to the required "address" and install the detector on the wiring.**
3. **When all detectors are fitted and "MAP CHANGE DONE" shows on the LCD, move switch-6 to OFF.**
4. **Test the Detectors. The LCD screen will show FIRE or FAULT as below.**



When you are ready, do the following …

5.	**Set Time & Date**	**MENU-1**
6	**Enter "Detector Text"**	**MENU-2**
7	**Set "Detector Type" (smoke / heat detector, call-point, etc)**	**" "**
8.	**Set "Zone" LED for each detector**	**" "**
9.	**Set "Service Reminder" period, i.e. how many weeks before the system gives a "Service Due" reminder (setting it to zero weeks turns "Service Reminder" OFF)**	**MENU-3**
10.	**Set "Installer Text", i.e. your Name & Phone No. on the LCD display.**	**" "**

If you get the message "INSTALLATION AND MAP MISMATCHED", move Switch-6 ("NEW MAP") to ON until the LCD shows "MAP CHANGE DONE", then turn switch-6 to OFF

Note…… The FirePoint-2 assumes a detector is fitted if you have entered a "Detector Type" code for it in MENU-2

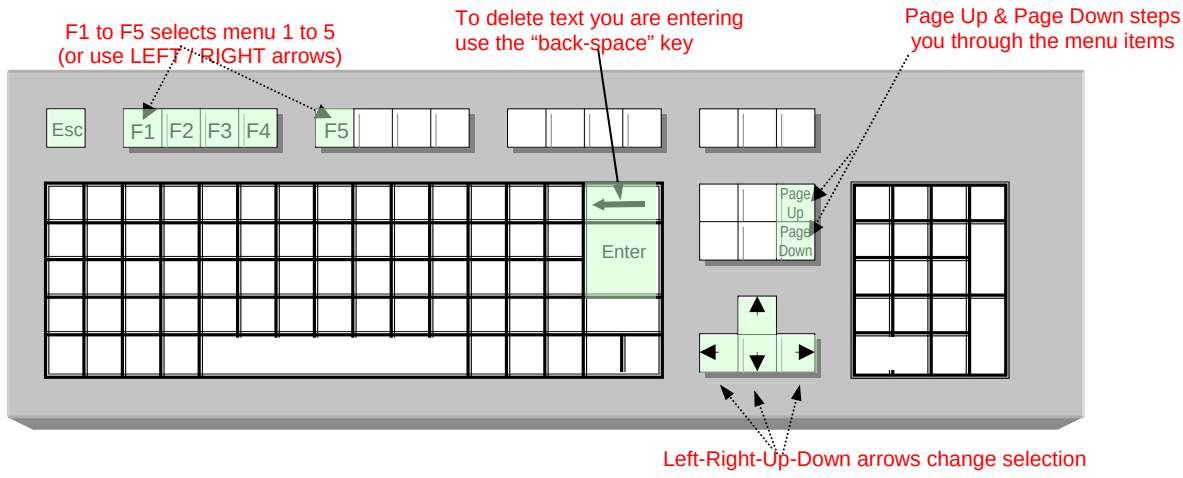
The "detector type" codes are :-

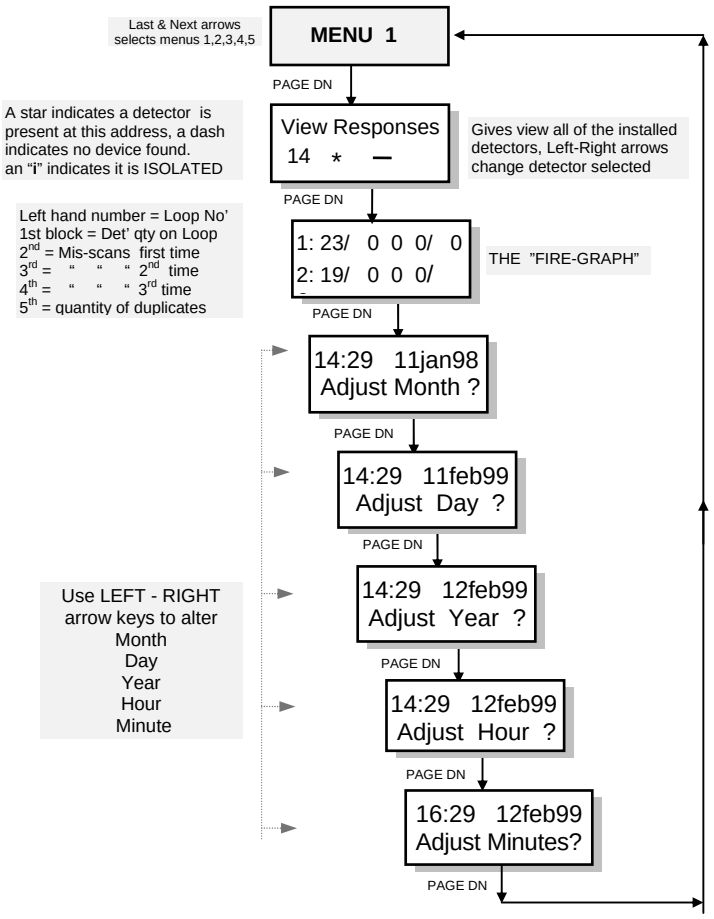
Select "det' type" code:	
Smoke Detector	SD
Heat Detector	HD
Call Point	CP
Input Unit	IU
Smoke Beam	SB
Duct Probe	DP
Unlisted	??
Not Installed	- -

If you set a detector as a Call-Point for example, it expects to find a detector responding at that "address", if the system finds no device the display will show a fault condition for the "missing" detector.

To solve this, simply move the "NEW MAP" switch to ON and the system will automatically move any uninstalled device information into the background, when the device is later fitted just turn "MAP CHANGE" to ON and the device will be brought on-line again.

IF THE KEYBOARD SOMETIMES SEEMS A LITTLE SLOW WHEN ENTERING DATA, BE PATIENT, IT MAY BE THAT THE SYSTEM IS ALSO CARRYING OUT IT'S POLLING, MONITORING, & "HOUSEKEEPING" TASKS AS THE SAME TIME.



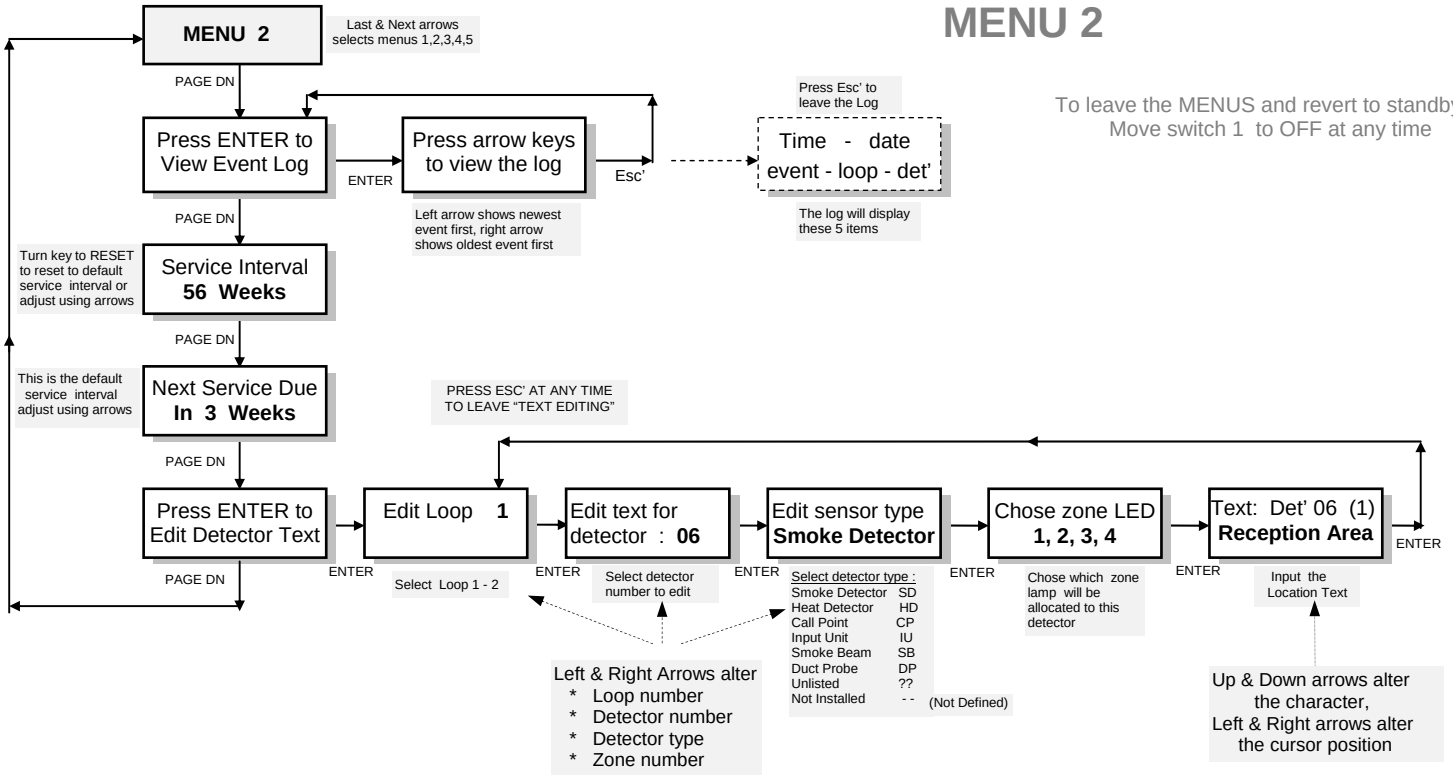


***WARNING**. When you are in the "VIEW RESPONSES" display the system is not polling the detectors and a fire alarm will only be shown as an "F" when you are viewing that detector number, **NO ALARMS WILL SOUND**.*

MENU 1

To leave the MENUS and revert to standby :-
Move switch-1 to OFF at any time

PAGE-DN will step you down through the menu items. ENTER will take you sideways through the selection

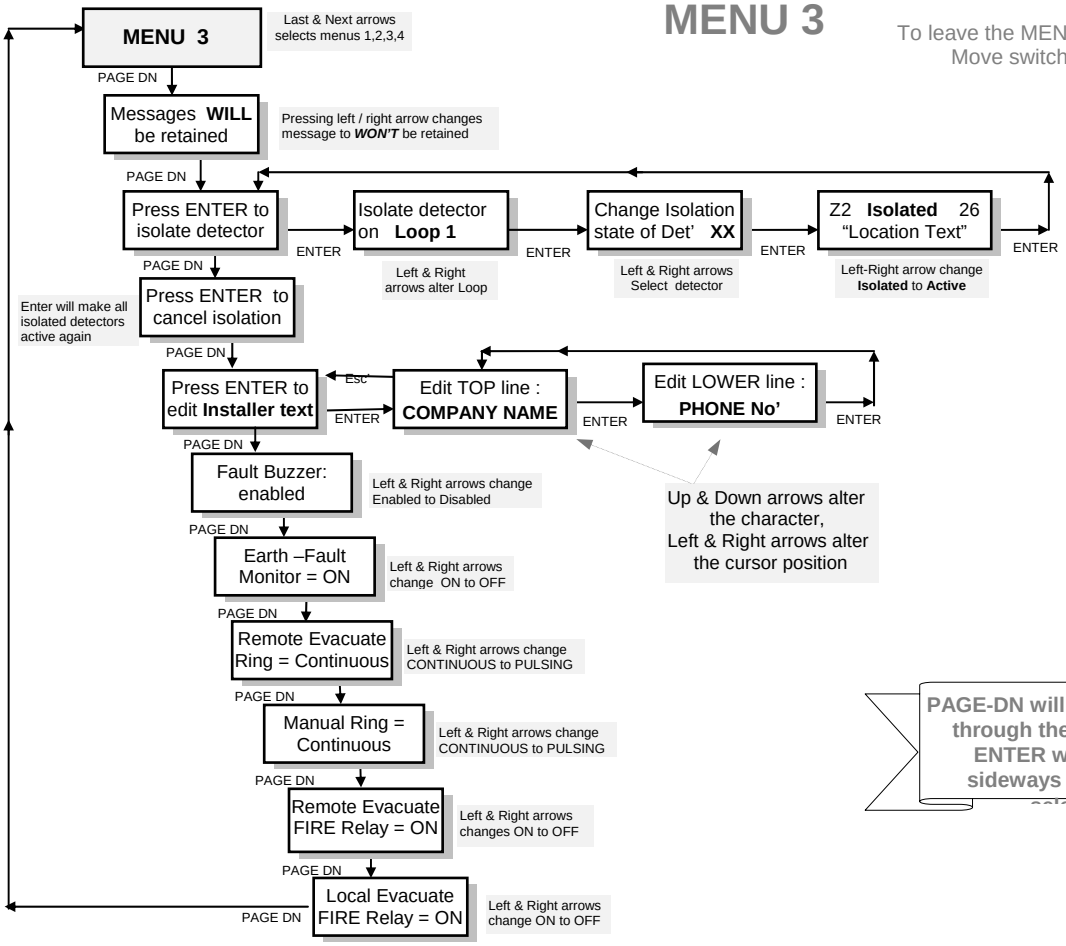

MENU 2
Last & Next arrows selects menus 1,2,3,4,5
PAGE DN
Press ENTER to View Event Log
ENTER
Press arrow keys to view the log
Esc'
Press Esc' to leave the Log
Time - date
event - loop - det'
The log will display these 5 items
Left arrow shows newest event first, right arrow shows oldest event first
PAGE DN
Turn key to RESET to reset to default service interval or adjust using arrows
Service Interval
56 Weeks
PAGE DN
This is the default service interval adjust using arrows
Next Service Due
In 3 Weeks
PAGE DN
PRESS ESC' AT ANY TIME TO LEAVE "TEXT EDITING"
Press ENTER to Edit Detector Text
ENTER
Edit Loop 1
Select Loop 1 - 2
ENTER
Edit text for detector : 06
Select detector number to edit
ENTER
Edit sensor type
Smoke Detector
Select detector type :
Smoke Detector SD
Heat Detector HD
Call Point CP
Input Unit IU
Smoke Beam SB
Duct Probe DP
Unlisted ??
Not Installed - - (Not Defined)
ENTER
Chose zone LED
1, 2, 3, 4
Chose which zone lamp will be allocated to this detector
ENTER
Text: Det' 06 (1)
Reception Area
Input the Location Text
ENTER
Left & Right Arrows alter
* Loop number
* Detector number
* Detector type
* Zone number
Up & Down arrows alter the character,
Left & Right arrows alter the cursor position

MENU 2

To leave the MENUS and revert to standby :-
Move switch 1 to OFF at any time

MENU 3

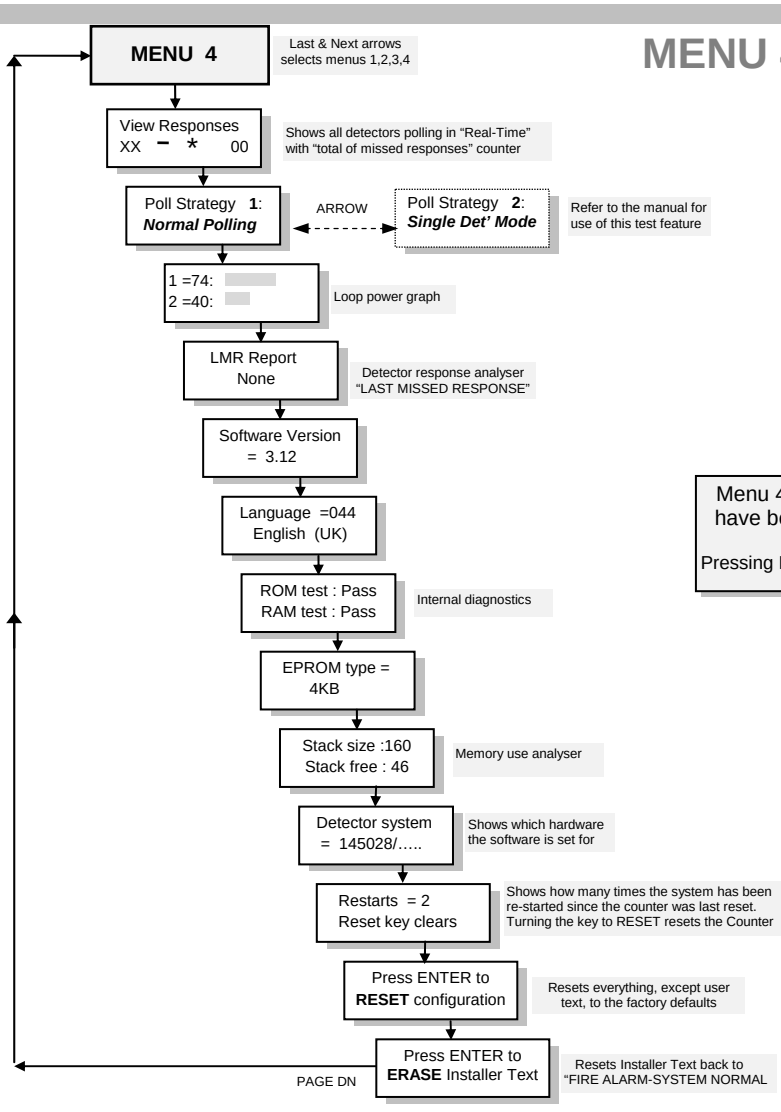
To leave the MENUS and revert to standby :-
Move switch 1 to OFF at any time


MENU 3
Last & Next arrows selects menus 1,2,3,4
PAGE DN
Messages WILL be retained
Pressing left / right arrow changes message to WON'T be retained
PAGE DN
Press ENTER to isolate detector
ENTER
Isolate detector on Loop 1
ENTER
Left & Right arrows alter Loop
Change Isolation state of Det' XX
ENTER
Left & Right arrows Select detector
Z2 Isolated 26 "Location Text"
ENTER
Left-Right arrow change Isolated to Active
PAGE DN
Press ENTER to cancel isolation
Enter will make all isolated detectors active again
PAGE DN
Press ENTER to edit Installer text
Esc
ENTER
Edit TOP line : COMPANY NAME
ENTER
Edit LOWER line : PHONE No'
ENTER
Up & Down arrows alter the character,
Left & Right arrows alter the cursor position
PAGE DN
Fault Buzzer: enabled
Left & Right arrows change Enabled to Disabled
PAGE DN
Earth –Fault Monitor = ON
Left & Right arrows change ON to OFF
PAGE DN
Remote Evacuate Ring = Continuous
Left & Right arrows change CONTINUOUS to PULSING
PAGE DN
Manual Ring = Continuous
Left & Right arrows change CONTINUOUS to PULSING
PAGE DN
Remote Evacuate FIRE Relay = ON
Left & Right arrows changes ON to OFF
PAGE DN
Local Evacuate FIRE Relay = ON
Left & Right arrows change ON to OFF
PAGE DN

PAGE-DN will step you down through the menu items. ENTER will take you sideways through the selection

MENU 4

To leave the MENUS and revert to standby :-
Move switch-1 to OFF at any time

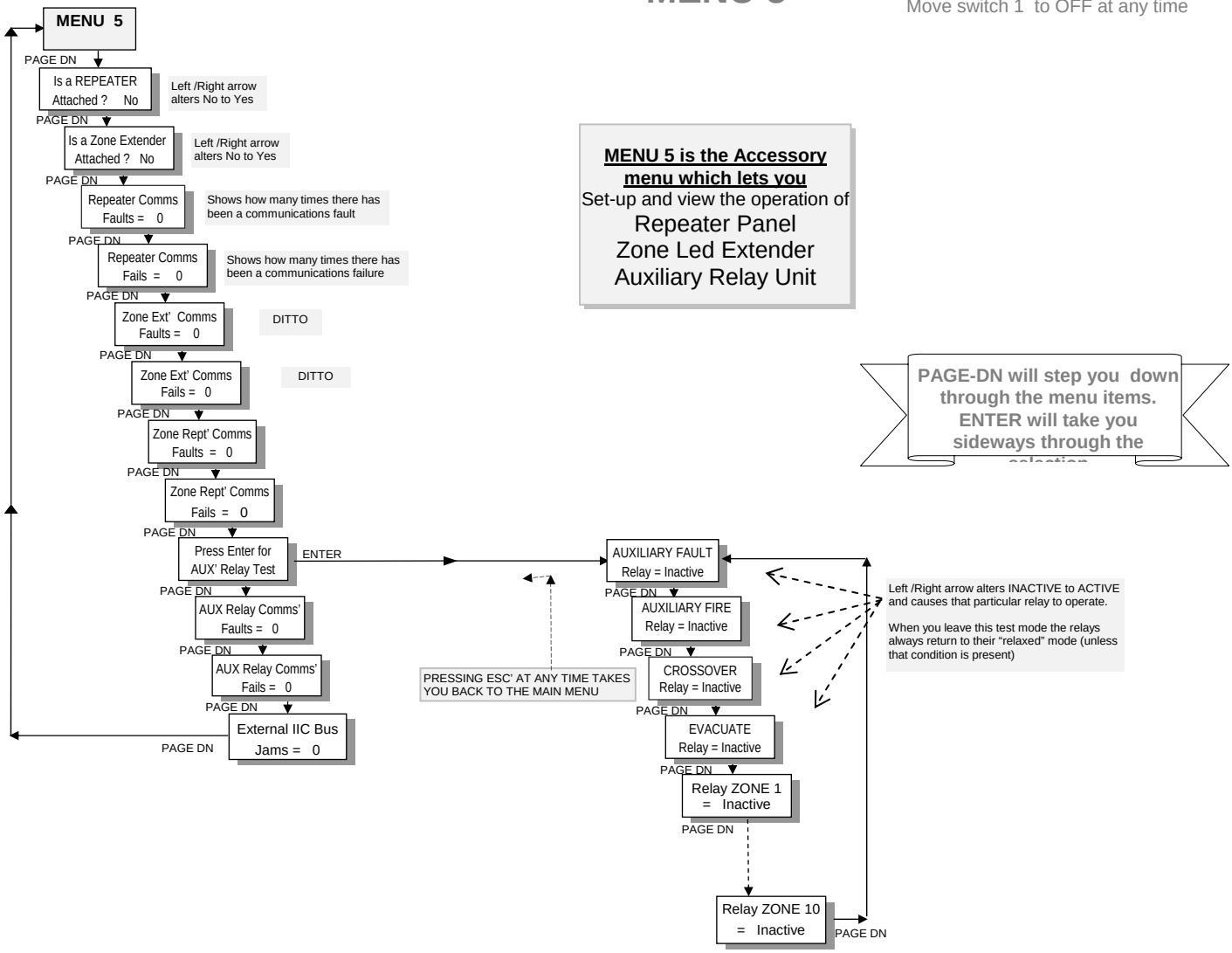

MENU 4
Last & Next arrows selects menus 1,2,3,4
View Responses
XX – * 00
Shows all detectors polling in "Real-Time" with "total of missed responses" counter
Poll Strategy 1: Normal Polling
ARROW
Poll Strategy 2: Single Det' Mode
Refer to the manual for use of this test feature
1 =74:
2 =40:
Loop power graph
LMR Report None
Detector response analyser "LAST MISSED RESPONSE"
Software Version = 3.12
Language =044 English (UK)
ROM test : Pass
RAM test : Pass
Internal diagnostics
EPROM type = 4KB
Stack size :160
Stack free : 46
Memory use analyser
Detector system = 145028/…..
Shows which hardware the software is set for
Restarts = 2
Reset key clears
Shows how many times the system has been re-started since the counter was last reset. Turning the key to RESET resets the Counter
Press ENTER to RESET configuration
Resets everything, except user text, to the factory defaults
Press ENTER to ERASE Installer Text
Resets Installer Text back to "FIRE ALARM-SYSTEM NORMAL
PAGE DN

Menu 4 is a series of technical displays which have been provided to assist problem solving.

Pressing PAGE DOWN will step through the selections

MENU 5

To leave the MENUS and revert to standby :-
Move switch 1 to OFF at any time


MENU 5
PAGE DN
Is a REPEATER Attached ? No
Left /Right arrow alters No to Yes
Is a Zone Extender Attached ? No
Left /Right arrow alters No to Yes
Repeater Comms Faults = 0
Shows how many times there has been a communications fault
Repeater Comms Fails = 0
Shows how many times there has been a communications failure
Zone Ext' Comms Faults = 0
DITTO
Zone Ext' Comms Fails = 0
DITTO
Zone Rept' Comms Faults = 0
Zone Rept' Comms Fails = 0
Press Enter for AUX' Relay Test
ENTER
AUX Relay Comms' Faults = 0
AUX Relay Comms' Fails = 0
External IIC Bus Jams = 0
MENU 5 is the Accessory menu which lets you
Set-up and view the operation of
Repeater Panel
Zone Led Extender
Auxiliary Relay Unit
PAGE-DN will step you down through the menu items. ENTER will take you sideways through the
PRESSING ESC' AT ANY TIME TAKES YOU BACK TO THE MAIN MENU
AUXILIARY FAULT Relay = Inactive
AUXILIARY FIRE Relay = Inactive
CROSSOVER Relay = Inactive
EVACUATE Relay = Inactive
Relay ZONE 1 = Inactive
Relay ZONE 10 = Inactive
Left /Right arrow alters INACTIVE to ACTIVE and causes that particular relay to operate.
When you leave this test mode the relays always return to their "relaxed" mode (unless that condition is present)

The Engineers Function Switches

Menu Mode…….Switch 1
In the ON position, this allows access to the five Menus by pressing Last / Next Arrows, or ESC' plus buttons 1,2,3,4,5 on the keypad.

Spare……..Switch 2

Walk-Test…….. Switch 3
In the ON position, the system is non-latching; so an alarm condition will reset itself when the alarm cause is cleared, see Section 5.

Silence Alarms……Switch 4
When this switch is ON, any alarm condition will be displayed at the control panel but no alarms will sound.

View Detector Population…..Switch 5
To view the entire installed detector population move Function Switch 5 to ON and use the four arrow keys to scroll through both Loops
(A detector cannot be viewed until it has been entered in the memory map by moving switch-6 to ON first)

Change Memory Map……..Switch 6
When this switch is ON detectors may be added and removed from the system, when it is OFF the information is locked in.

NOTE.. If you are in any part of any menu, you can immediately go to any other menu by pressing ESC' plus the other menu number,
e.g. Esc' and 4 will take you straight to MENU-4; you can leave the menus at any time by moving switch-1 to the OFF position.

Installation Wiring

In these instructions the term "Loop" is used to mean the 2-core fireproof cable you install throughout the building to connect the detectors and sounders to the FirePoint-2 control panel, in practice there is no need to actually form the wiring in a Loop. **If using Pirelli FP200, Firetuf, or similar type flexible cables, all of the screen (drain) wires should be firmly connected at all joints to form a continuous earthed shield to the whole wiring installation.** When upgrading an old system, if there isn't earth continuity on the existing cables, use with caution. Use separate 2-core cables for each loop throughout the installation rather than a single 4 core containing both loops in case this results in cross-channel interference; The FirePoint - 2 is will accept "spurs" and "tees" off the wiring and doesn't need "end-of-line resistors".

The term "Detector" will mean any smoke or heat detector, addressable base, call-point, smoke-beam, duct-probe or input unit.

To conform to BS5839 each Loop should have at least one alarm sounder and one detector fitted.

NEVER USE A MEGGER OR OTHER HIGH VOLTAGE TESTER ON THE WIRING IF THE CONTROL PANEL OR DETECTORS ARE CONNECTED; DAMAGE WILL RESULT AND THE WARRANTY WILL BE VOID. Only use an AVO 8 or similar type of low voltage meter. Static electricity is extremely hazardous to electronics, walking on carpet containing nylon or other man made fibre generates large amounts of static electricity which discharges into the electronics when touched causing instant damage. If the detectors or control panel are fitted you should always earth yourself before touching any of the wiring conductors, termination screws or metal parts.

Detector system description

The FirePoint-2 is a 2-loop addressable control panel with a capacity of 64 detectors on each loop, all detectors on the loops are polled within a 3-second period and the loops are polled in parallel to stay within this time frame. When a detector is polled or interrogated by the control panel its LED will give a short flash in reply.

All the detectors send their own unique "address code" back to the control panel which then compares it to a similar "map" in its non-volatile memory. The FirePoint-2 constantly compares those devices responding on the wiring with its memory map and if any detector should become missing this will be recognised and displayed on the LCD screen. Even when the system is de-powered the map is retained.

If you add or remove any detectors from the installation, the "**NEW MAP**" switch should be moved to the ON position to allow the new configuration map to be stored in the memory, if a detector is added to the system without the memory map switch being turned ON the LCD will display **"INSTALLATION AND MAP MISMATCHED"**.

Address 0 (zero) on each loop is reserved as a "non-latching, pulsing-alarm" address, so, for example, if your fire alarm system is interconnected to a Landlord's "staircase only" system, or to an adjacent building's system, if the other control panel sends a FIRE signal to your detector set to address 0 it will tell the FirePoint-2 to pulse the alarms ON and OFF every few seconds and display "***FIRE"*** and the Location Text, when the other system is reset the FirePoint-2 will auto-reset after a few sec's (the information will still be recorded in the Log). When address 0 is triggered, the Aux.' fire relay will NOT change-over to prevent the two systems from "nesting", or "locking in a loop".

Powering up the system

When the FirePoint - 2 control panel is powered up the mains supply should be connected first, whereon the LED's on the front panel will cascade and the buzzer sound while the internal systems initialise, this takes about 10 seconds after which the display may show "MICROPROCESSOR RESTART = 1"; turning the key to RESET clears this from the display. After connecting the battery and the Loop wiring move the "NEW MAP" switch on the PCB to the ON position and after several seconds the message "***MAP CHANGE DONE***" will be displayed together with the quantity of detectors on each loop; moving the switch back to the OFF position will show the system scrolling through the detectors and locking the information into memory.

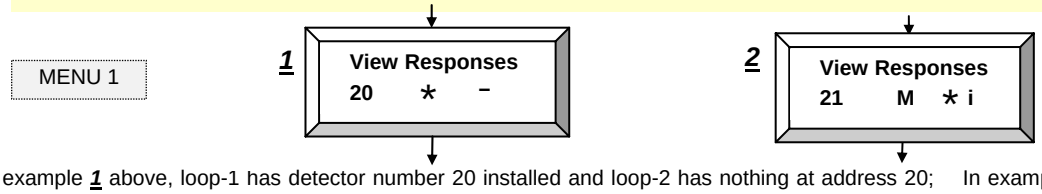
Never connect the batteries the wrong way round; damage will result which is factory detectable and not covered by the warranty.

1. VIEW RESPONSES

NOTE… While using this facility the detectors are not being polled and are inoperative, the EVACUATE switch on the front of the control panel is still fully operational.

This display shows if a detector is being registered at the address number on the left of the screen, by scrolling through all 64 addresses you can view all detectors on both Loops. When a detector is selected on the screen, the LED on the actual detector will remain lit enabling you to precisely determine the address number a detector is set to.

" ***** " (star) indicates a detector is present.
" **-** " (dash) means no detector is being seen at that address number.
" **F** " means that the detector is in FIRE condition.
" **O** " means the Loop is OPEN CIRCUIT
" **S** " means the Loop is SHORT CIRCUIT
" **i** " means that that detector is ISOLATED.
" **M** " means MULTIPLE responses i.e. you have more than one detector on a loop with the same address number setting.
" **N** " means NO RESPONSE from that detector, possibly caused by the detector being removed from it's base (if the memory map expects to see a detector responding from that address location and doesn't get it it will assume that the detector is wrongly missing and give a NO RESPONSE signal).
" **?** " means that the detector is NOT YET DEFINED and will not give FIRE OR FAULT signals.

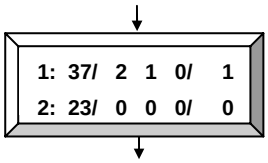


In example ***1*** above, loop-1 has detector number 20 installed and loop-2 has nothing at address 20; In example ***2***, detector 21 on Loop-1 has another detector with the same number on the loop (Multiple), and detector 21 on loop-2 is isolated (i).

2. The FIREGRAPH

This facility shows the "condition" of the signals coming back from the detectors on each loop; the top line is Loop 1, the bottom line is Loop 2.

MENU 1



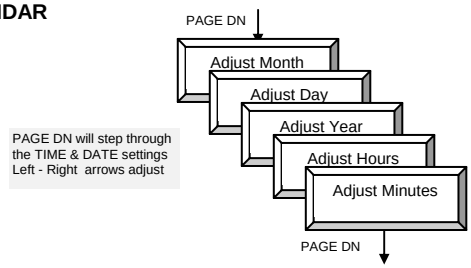
The number on the left of the screen is the total number of detectors being seen on each loop.
The next block indicates the number of mis-responses from the detectors on the 1st scan.
The next block indicates the number of mis-responses from the detectors on the 2nd scan.
The next block indicates the number of mis-responses from the detectors on the 3rd scan.
The right hand block shows the number of duplicated addresses or un-mapped detectors on each loop.

In the example above, Loop 1 has 37 detectors, with 1 duplicate or un-mapped detector; the first scan block shows that 2 detectors mis-responded on the first cycle, one detector on the second scan, and non on the third (a FAULT condition occurs after 4 consecutive bad scans from a detector)

An occasional number in the first or second scan box is not unusual and does not necessarily indicate the presence of a fault, whilst multiple numbers in the second and third-scan boxes should be treated as early warning signs of a FAULT. In Non-Menu mode, the FireGraph can be viewed instantly by pressing button number 1 on the Keypad.

3. SET CLOCK & CALENDAR

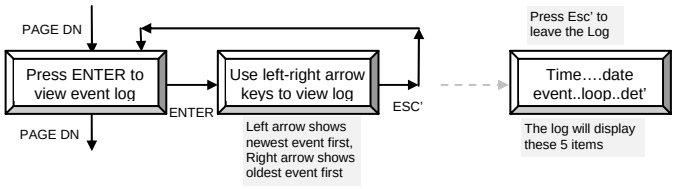
MENU 1



4. EVENT LOG

The event log will retain approximately the last 100 events in its memory; the log will **NOT** record Class-Change or Walk-Test events.
The log will record the Time, Date, Type of event, Loop number and Detector number; every event in the log will have first been displayed on the LCD screen when it occurred, when the log fills up the oldest event will be discarded so that the new event can be recorded.

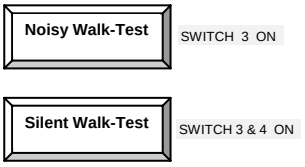
MENU 2

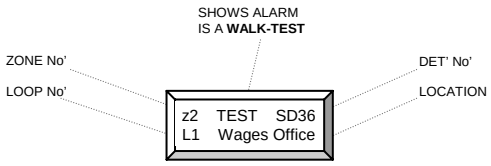

PAGE DN
Press ENTER to view event log
ENTER
Use left-right arrow keys to view log
ESC'
Time….date event..loop..det'
PAGE DN
Press Esc' to leave the Log
Left arrow shows newest event first, Right arrow shows oldest event first
The log will display these 5 items

5. WALK TEST. (NOISY or SILENT)

This facility allows the system to auto-reset from an alarm condition, so that when a detector is set into FIRE the alarms will reset after 2 seconds; when the alarm condition is removed the control panel will automatically return to the standby mode, this facility allows one-man testing of the entire installation without having to manually reset the control panel each time. In Walk-Test mode the display will show "***NOISY WALK-TEST***".

In certain situations you may wish to turn the alarm sounders off during walk-test (e.g. in a hospital, office, etc, when multiple alarm sounding would be undesirable), to do this move Function Switch 4 to ON, the sounders will be silenced until switch-4 is moved back to its OFF position, during this time the display will show "***SILENT WALK-TEST***"; when a detector is triggered during noisy and silent-walk-test it's LED will pulse brightly to give a visual indication the control panel has received the signal.



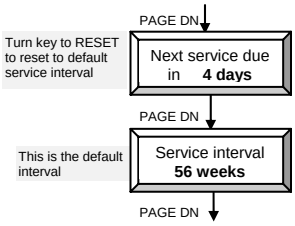


6. SERVICE TIMER & SERVICE INTERVAL

You can set the Service Timer to remind the system user when a service of the fire alarm system is due; when the service is due the FirePoint-2 will flash the fault LED's continuously and sound the internal buzzer once every 5 minutes, the display will also alternate between the message "**Maintenance Service Due**" and the "Installer message" (which may be the company name and phone number). The "Service Reminder" can be turned OFF by setting the time to zero hours, or up to 156 weeks in advance, you can also view how many weeks before the next "Service Due" reminder by seeing how far the "Next Service Due In … " has remaining……the default service interval is 56 weeks.

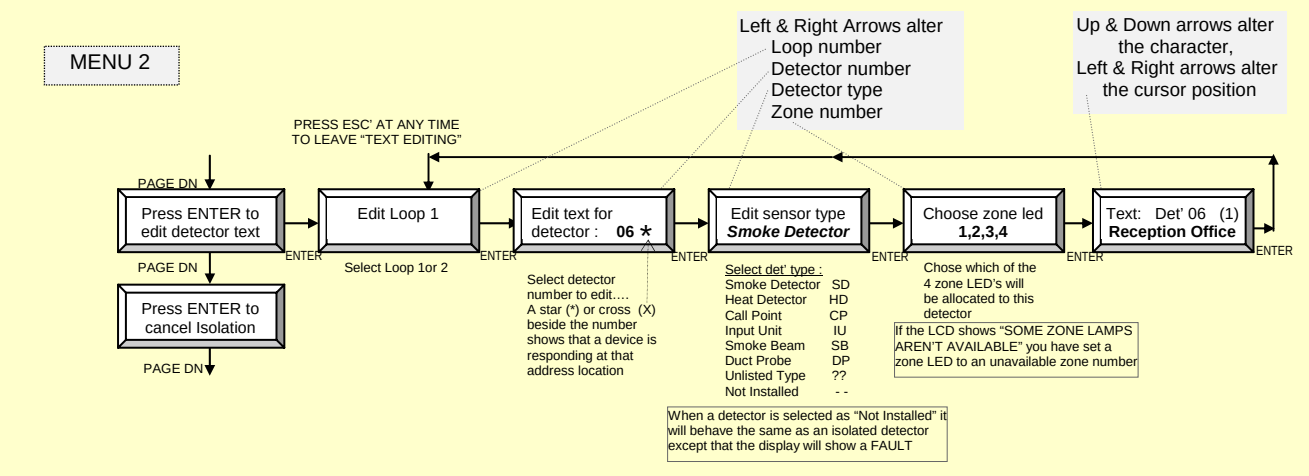
When a service has been carried out, the Service Timer can be reset to it's pre-set period by going to "**Next Service Due In …** " message and turning the control panel key-switch to RESET, whereon the display will reset to the default interval you have set and show how many weeks to the next reminder, or you can set to however many hours, days, or weeks you require manually via the keypad. The "Service Due" message will disappear from the screen whenever a FIRE or FAULT message is present.

MENU 2


PAGE DN
Turn key to RESET to reset to default service interval
Next service due in 4 days
PAGE DN
This is the default interval
Service interval 56 weeks
PAGE DN

7. EDIT DETECTORS

The “detector text” is the information shown on the display when a FIRE or FAULT occurs; the display will also show :- Loop number (1 or 2); Device number (det’ 0-63); Device Type; Zone No’.


MENU 2
Left & Right Arrows alter
Loop number
Detector number
Detector type
Zone number
Up & Down arrows alter the character,
Left & Right arrows alter the cursor position
PRESS ESC’ AT ANY TIME TO LEAVE “TEXT EDITING”
PAGE DN
Press ENTER to edit detector text
ENTER
Edit Loop 1
Select Loop 1or 2
ENTER
Edit text for detector : 06 *
Select detector number to edit…. A star (*) or cross (X) beside the number shows that a device is responding at that address location
ENTER
Edit sensor type Smoke Detector
Select det’ type :
Smoke Detector SD
Heat Detector HD
Call Point CP
Input Unit IU
Smoke Beam SB
Duct Probe DP
Unlisted Type ??
Not Installed - -
ENTER
Choose zone led 1,2,3,4
Chose which of the 4 zone LED’s will be allocated to this detector
If the LCD shows “SOME ZONE LAMPS AREN’T AVAILABLE” you have set a zone LED to an unavailable zone number
ENTER
Text: Det’ 06 (1) Reception Office
ENTER
PAGE DN
Press ENTER to cancel Isolation
PAGE DN
When a detector is selected as “Not Installed” it will behave the same as an isolated detector except that the display will show a FAULT

8. CLASS CHANGE

This facility allows the alarms to be sounded remotely by closing a pair of normally-open contacts connected to these terminals, the alarms will sound for as long as the closed-circuit lasts and the display will show “***MANUAL RING***”; this will NOT be recorded in the Log and no red fire lamp will come on. Removing the short-circuit will return the control panel to the silent standby condition. A suitable switch for class-change would be a single-pole n/o switch. In Class-Change the auxiliary fire relay will NOT change-over. Class-change can be set to “PULSING” or “CONTINUOUS” mode in menu 2

9. MANUAL EVACUATE 1 (LOCAL EVACUATE)

The alarms can be triggered immediately by turning the key to RESET and pressing the EVACUATE button on the front of the control panel; the display will show “***MANUAL EVACUATE***” and the alarms will sound and the zone lamps will cascade until the key is turned to SILENCE. Turning the key to RESET will return the control panel to the standby condition.
During “Evacuate” the auxiliary fire relay can be made to change-over or, not operate - see section 11 on the next page or MENU-3

MANUAL EVACUATE 2 (REMOTE EVACUATE)

The alarms can be triggered immediately by closing a pair of normally-open contacts connected to these terminals, the alarms will sound for as long as the closed circuit lasts and the display will show “***REMOTE MANUAL EVACUATE***”; this event will be recorded in the Log and all red fire lamps will come on and cascade, removing the closed-circuit will return the control panel to the standby condition.
During “Remote Evacuate” the Aux’ fire relay can be made to change-over, or not operate, and the alarms can be made PULSING or CONTINUOUS.
See section 11 on the next page or MENU-3.

10. RETAIN / REMOVE LAST FAULT INDICATION ON THE DISPLAY SCREEN

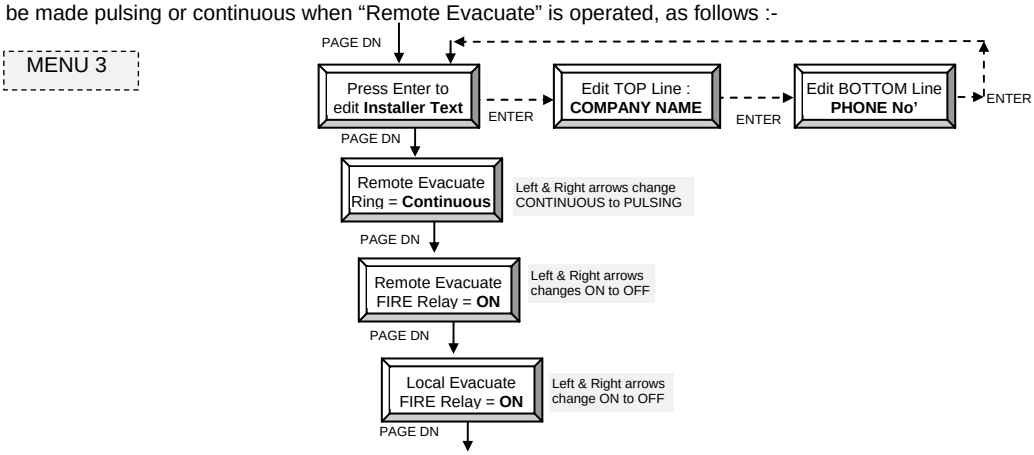
With an intermittent fault it can be useful to retain the details of the last fault occurrence on the LCD screen so that the user can accurately tell you what the fault was, but under some circumstances it can lead a user to think there is a fault when there isn’t, e.g. when the mains supply has failed and come back on the display would still show “Main Electricity Supply Failed”, so it may be prudent to set the system to ***RETAIN*** the last fault indication during a trial period when the system is first installed, and set the system to ***NOT RETAIN*** the fault indication after this trial period; Remember…. the fault will be retained in the Log anyway so it can always be viewed later.

11. FIRE, FAULT & AUXILIARY OUTPUTS

The outputs from the FirePoint-2 are as follows:-

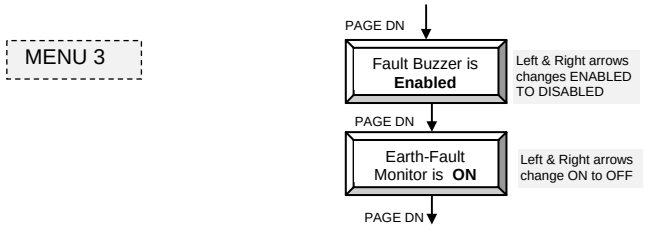
1. FIRE RELAY with volt-free change-over contacts rated 24volts @ 2 amps.. NOT FOR MAINS VOLTAGES.
2. FAULT driver transistor for switching 24volts @ 70mA.(Note! O/p is normally energised in standby mode (BS5839)
3. 24v dc Auxiliary power output (fused at 250mA).

The FIRE RELAY can be programmed to changeover, or not, in “Local” or “Remote” Evacuate conditions by following MENU 3, also the alarms can be made pulsing or continuous when “Remote Evacuate” is operated, as follows :-


MENU 3
PAGE DN
Press Enter to edit Installer Text
ENTER
Edit TOP Line : COMPANY NAME
ENTER
Edit BOTTOM Line PHONE No’
ENTER
PAGE DN
Remote Evacuate Ring = Continuous
Left & Right arrows change CONTINUOUS to PULSING
PAGE DN
Remote Evacuate FIRE Relay = ON
Left & Right arrows changes ON to OFF
PAGE DN
Local Evacuate FIRE Relay = ON
Left & Right arrows change ON to OFF
PAGE DN

12. EARTH FAULT MONITOR

If a low resistance should occur between system earth and either negative or positive voltage, the display will show either "***NEGATIVE EARTH FAULT***" or ***POSITIVE EARTH FAULT***" and the internal buzzer will sound. The Earth Fault Monitor can be disabled by going to Menu-3 and setting EARTH-FAULT MONITOR option to OFF, you can turn it back ON in the same way. If the earth-fault is existing when you want to turn the monitor off; Turn it off as described above, then de-power, and re-power the system.


MENU 3
PAGE DN
Fault Buzzer is Enabled
Left & Right arrows changes ENABLED TO DISABLED
PAGE DN
Earth-Fault Monitor is ON
Left & Right arrows change ON to OFF
PAGE DN

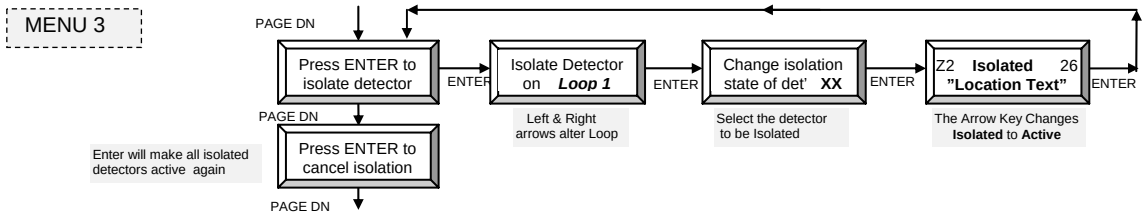
13. DETECTOR REMOVED DELAY

When a smoke or heat detector is removed from its base there is a delay of approximately 12 seconds before the condition is shown on the LCD screen so that a detector can, for example, be removed for cleaning, or blowing out after smoke testing without a FAULT showing, but if a detector is left out longer than 12 seconds the display will show "FAULT" and alternate with the "default message" (installers name & phone number).

14. ISOLATE DETECTORS

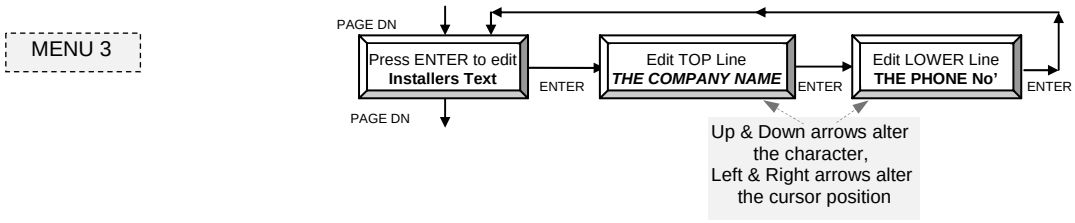
To isolate a detector so that it does not respond to FIRE signals, go to menu 3 and follow the flow-chart below ; **NOTE**. Call-Points cannot be isolated.

To de-isolate INDIVIDUAL detectors repeat the same process, or to de-isolate ALL detectors simultaneously press "Press Enter to Cancel Isolation" in Menu-3. Note !…. An Isolated detector will still report fault conditions



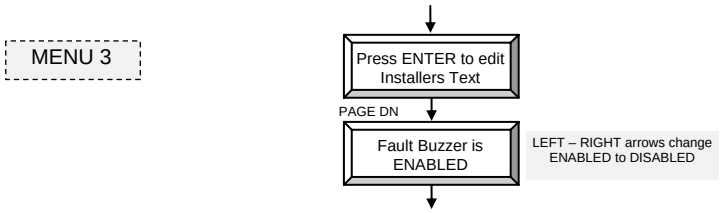
15. INSTALLERS TEXT

The "Installers Text" message is the information that will be shown on the LCD display during standby, a FAULT, or when a service is due, the message can be 2 lines of 16 characters and will usually be the company name on line 1, and the telephone number on line 2, although you can enter any message you wish with a limit of 16 characters per line.



16. DISABLE FAULT BUZZER

The fault buzzer can be disabled by an option in Menu-3, the buzzer will only be muted for non-critical system faults, it will still operate when there is a Main Supply, Battery, or Auxiliary 24v fault

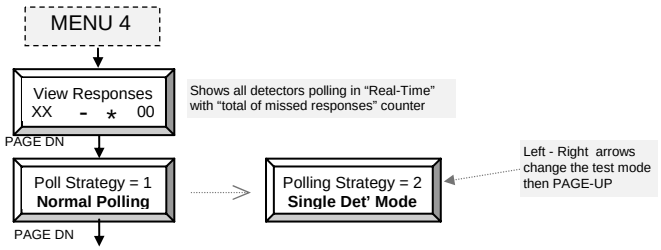


NOTE. When the buzzer is silenced and you exit menu mode, or whenever you exit from any engineer functions, the display will show "FAULT BUZZER DISABLED" as a reminder, the screen can be cleared by turning the key-switch to RESET.

17. AUTO TESTING / SINGLE TESTING OF DETECTORS (Polling Strategy)

This is a "real-time" view of the detectors being polled and responding. In normal polling all detectors are interrogated approximately once every 3-seconds; and in single detector polling approximately 25 times-per-second, and should respond each time. If a detector's response isn't within certain parameters at the control panel the number on the right will increase with each cycle, this number can be reset to zero by turning the key to RESET. This feature is purely for analysis purposes by experienced engineers and should be regarded solely as an aid to fault finding, a high number by itself means nothing, but a high number within a short period may indicate a fault, caused possibly by one of the following :-

a. A faulty, or off-specification addressable device
b. A bad connection on the loop wiring
c. Interference being induced into the cable
d. High cable capacitance or resistance
e. Low resistance between cable cores

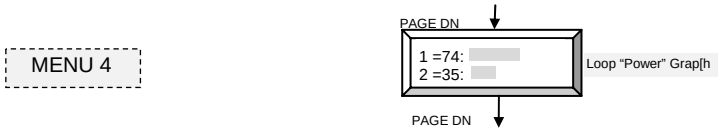

MENU 4
View Responses
XX - * 00
Shows all detectors polling in "Real-Time" with "total of missed responses" counter
PAGE DN
Poll Strategy = 1 Normal Polling
Polling Strategy = 2 Single Det' Mode
Left - Right arrows change the test mode then PAGE-UP
PAGE DN

Continued on next page

The **TEST STRATEGY** lets you change the display from auto-polling ALL detectors, to polling only a SINGLE selected detector; in this way every individual detector installed can be examined to locate the source of mis-responses; but again, these features are for the aid of knowledgeable engineer's to assist in analysing and locating faults and should only be used in conjunction with other information gathered. NOTE when you are in single detector mode the fire alarm system is only polling the actual detector you see on the LCD and all other detectors are inoperative, before leaving menu 4 you should change the setting back to AUTO TESTING. T**he EVACUATE switch on the front of the control panel will still be fully operational during "Single Detector Polling".**

18. LOOP "POWER" GRAPH

This display shows in numeric and graphical form the "power" driven to each loop, these graphs are not intended to show true values in milli-amps, volts, watts or any other commodity, but should be considered only as a visual-aid for fault finding, for example if you had 30 detectors on each loop you would expect to see a *similar* size graph for each loop, but if one loop showed a significantly higher number it could mean, in MICC for example, that there could be damp in the cable causing a low resistance across the cores; this display should only be used to assist in analysing and locating faults and then only in conjunction with other information gathered.



19. LMR REPORT

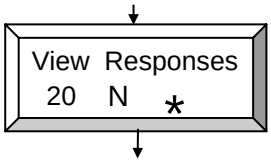
This display shows the "LAST MISSED RESPONSE" from a detector and can be used in tracing intermittent faults on the installation; this feature will only retain the details of the very last detector to give a single mis-response, this mis-response may not be in the log because a detector must mis-respond 4 consecutive times before the log records it as a fault, the number on the top line shows the total quantity of mis-responses from all detectors that have occurred since the counter was last reset to zero, resetting to zero is done by turning the key to RESET.
This display should only be used by knowledgeable engineers to assist in analysing and locating faults and then only in conjunction with other information gathered, large numbers on the "LMR Report" do not necessarily mean the system is faulty.

20. RESET COUNTER

This display shows how many times the system has been re-initialised (i.e. de-powered and re-started) since the counter was last reset, turning the key to RESET resets the counter to zero, the Event Log records every time the system is re-initialised.

21. FAULT FINDING and general information

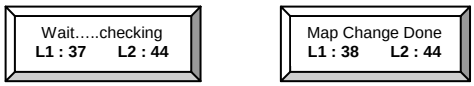
A common mistake which occurs is when you fit a detector onto a loop and accidentally program it onto the other loop, you will get a message similar to below, where detector 20 should be on Loop-1 but is showing "No Response", and the LCD shows one present on Loop-2 when there shouldn't be any. Re-programming detector 20 onto Loop-2 instead of Loop-1 will solve the problem.
There is no need to de-program detector 20 from Loop-1 if you don't want to - simply by moving the "Map Change" switch to ON the control panel will "hide" this wrong information from the display.



If you add a detector to the installation that has the same address number as an existing detector you will get a message similar to below :-

"Zx" is the zone number
??17 is the duplicated "address" No'
"Lx" is the Loop No'
"Location Text" is the text you have entered

If you connect an extra detector to the installation, the system will not "see" the new detector until it is in the memory-map, and as such it will not give FIRE or FAULT indications. The display will show the warning - "MAP & INSTALLATION MISSMATCHED".
To add the detector into the memory map, move the MAP CHANGE switch (Switch-6) to the ON position and after a few seconds the message "MAP CHANGE DONE" will appear with the new quantity of detectors on each Loop, move the switch back to the OFF position and the new memory map is saved.



If you were to mistakenly put the positive or negative wire of loop-1 into Loop-2 terminals, and vice versa; the led on each detector would still flash but they wouldn't go into FIRE condition, also you may find that on MAP CHANGE there could be the wrong quantity of detectors shown, uncrossing the wires and putting them back in the correct terminals will resolve the problem.

A flashing LED on a detector doesn't mean the detectors in the memory, the map-change switch must have been put to the ON position first.

To find a missing detector :- go to menu-1 and use the "VIEW RESPONSES" display, use the left / right arrows to go through the numbers on each loop, all of the installed detectors will have a "star" symbol to indicate YES, or a "dash" for NO (see section C, part 1).

To find a "MULTI" detector:- Usually it's quickest to look for a "missing" detector that should be there; go to menu-1 and use the "VIEW - RESPONSES" display. The "missing" detector has probably been set to the same number as another detector causing a "MULTIPLE" message.

To check what "address" number a detector is set at, go to VIEW RESPONSES and use the left / right arrows to step through all 64 numbers individually; when you reach the number that the detector is set to it's LED will stay on, in this way you can confirm the correct address setting of every installed detector.

If you get the message "SHORT CIRCUIT ON LOOP 1 (or 2) disconnect the loop wiring immediately and trace and remove the short circuit, a short circuit on the loops will eventually cause components on the PCB to heat.

22. SYSTEM DEFAULTS (FACTORY SETTINGS)

When the FirePoint-2 control panel arrives it will have a set of factory default settings which are :-

* All “Detector text” will be displayed as “ADDRESS XX”, (where “XX” is the address number you set on the detector switches).
* The Zone LED allocation will be :- (LOOP 1, ADDRESSES 0-31 = ZONE LED 1) (LOOP 1, ADDRESSES 32-63 = ZONE LED 2)
  (LOOP 2, ADDRESSES 0-32 = ZONE LED 3) (LOOP 2, ADDRESSES 33-63 = ZONE LED 4)
* The LCD will NOT retain the last fault indication.
* Service Timer will be ON..... Service Interval will be set to 56 WEEKS
* Default Installer Message will be “FIRE ALARM - SYSTEM NORMAL”.
* REMOTE EVACUATE ringing will be CONTINUOUS (not pulsing)
* REMOTE EVACUATE relay will be ON (the relay contacts WILL change over when remote evacuate is operated)
* LOCAL EVACUATE relay will be ON “ “ “ “ “

Resetting the defaults will not affect :- The Log entries; Location Text; “Detector type” settings; Clock & Calendar.

23. EXAMPLE CUSTOMER OPERATING INSTRUCTIONS

If the fire alarm system is operating normally the only lights illuminated will be the “SUPPLY ON” indication.

If a FIRE should occur

The main alarm sounders will operate and the control panel will show the exact location of the fire.
Evacuate the building avoiding the area where the fire is. Do not Shout, Run, or Panic.

To Silence the alarm sounders

Turn the key-switch to the “SILENCE” position.
(the main alarm sounders will stop and a buzzer in the control panel will sound)

To Reset the system

Turn the key-switch to the “RESET” position.

Note !. If a smoke detector still has smoke inside it or a call-point glass is broken, the alarm will go into its alarm condition again; either ventilate the area or replace the call-point glass as necessary.

If a Fault should occur

The Yellow fault lights will come on and the LCD display window will show what the fault is.
Turn control panel key to “SILENCE” to mute the buzzer and contact your service organisation.

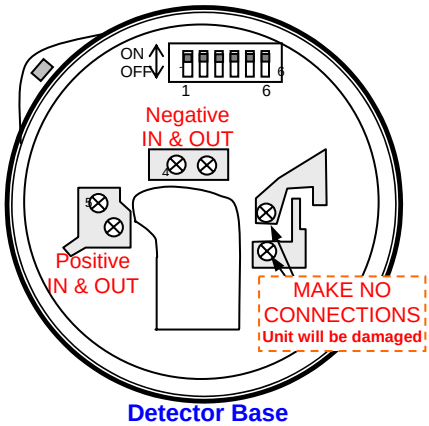
To sound an EVACUATION

Press and hold the EVACUATE button and firmly turn the key to RESET at the same time.

Tear off

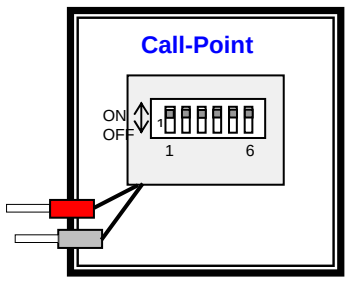
24. Detector “Address” settings……..to set the “address code” on a detector Base, Call-Point, or Input Unit, set the switches shown to ON, all other switches should be in the OFF position.

Detector Address No'	Set these switches ON	Detector Address No'	Set these switches ON	Detector Address No'	Set these switches ON	Detector Address No'	Set these switches ON
1	1	17	5-1	33	6-1	49	6-5-1
2	2	18	5-2	34	6-2	50	6-5-2
3	2-1	19	5-2-1	35	6-2-1	51	6-5-2-1
4	3	20	5-3	36	6-3	52	6-5-3
5	3-1	21	5-3-1	37	6-3-1	53	6-5-3-1
6	3-2	22	5-3-2	38	6-3-2	54	6-5-3-2
7	3-2-1	23	5-3-2-1	39	6-3-2-1	55	6-5-3-2-1
8	4	24	5-4	40	6-4	56	6-5-4
9	4-1	25	5-4-1	41	6-4-1	57	6-5-4-1
10	4-2	26	5-4-2	42	6-4-2	58	6-5-4-2
11	4-2-1	27	5-4-2-1	43	6-4-2-1	59	6-5-4-2-1
12	4-3	28	5-4-3	44	6-4-3	60	6-5-4-3
13	4-3-1	29	5-4-3-1	45	6-4-3-1	61	6-5-4-3-1
14	4-3-2	30	5-4-3-2	46	6-4-3-2	62	6-5-4-3-2
15	4-3-2-1	31	5-4-3-2-1	47	6-4-3-2-1	63	6-5-4-3-2-1
16	5	32	6	48	6-5	00	All OFF



Detector Base

NOTE. Connect base ONLY as shown here.



IMPORTANT NOTE !!
Ensure the detector base is mounted on a very flat surface so that the electronics are not subject to twisting when the mounting screws are tightened